

Title	<Special Lecture 3>From the Theory of Chaos to Nonequilibrium Statistical Mechanics
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Citation	IUTAM Symposium on 50 Years of Chaos : Applied and Theoretical (2011): 21-21
Issue Date	2011-12
URL	http://hdl.handle.net/2433/163150
Right	
Type	Book
Textversion	publisher

S3**From the Theory of Chaos to Nonequilibrium Statistical Mechanics**

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The theory of chaos has emerged from a multidisciplinary encounter of mathematics, physics, and other sciences. The study of chaotic (microscopic) dynamics is now contributing in a major way to our understanding of nonequilibrium statistical mechanics. In particular one does not want to be restricted to situations close to equilibrium. We shall discuss some of the successes and challenges that have been met in this new development.